This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(Currently Amended) A concentrator for voice telephones installed in a LANlocal Claim 1

area network comprising a LANlocal area network switching unit for switching and connecting a

plurality of interfaces, and a plurality of LANlocal area network hubs accommodating equipment

connected to the <del>LAN</del>local area network switching unit via the interfaces, respectively, and for

performing data communication over the LAN local area network, said concentrator comprising:

a LANlocal area network interface connected to the LANlocal area network switching unit;

at least one voice telephone; and

at least one set of voice telephone interfaces connected to the at least one voice telephone,

wherein digital or analog voice data transmitted and received by the at least one set of the telephone

interfaces are converted into MAC media access control frames or Pinternet protocol packets, and

the digital or analog voice data converted into the MAC media access control frames or Pinternet

protocol packets are relayed to the **LAN**<u>local area network</u> interface.

Claim 2 (Previously presented) A concentrator for voice telephones according to Claim

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1, further comprising:

a CPUcentral processing unit; and

a second LANlocal area network interface for performing transmission and reception of data

between the CPU central processing unit and one of the LAN local area network hubs.

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Claim 3 (Previously presented) A concentrator for voice telephone according to Claim

1, wherein signals from circuits of analog telephone networks subscribers are converted into call

control protocols according to TCP transmission control protocol - Pinternet protocol so as to be

able to accommodate the analog telephone subscribers' terminals.

Claim 4 (Currently Amended) A concentrator for voice telephone according to Claim 1,

further comprising:

a CPUcentral processing unit; and

a second LAN local area network interface for performing transmission and reception of data

with the CPUcentral processing unit and wherein the digital or analog voice data received from the

at least one voice telephone is converted into TCPtransmission control protocol – Pinternet

protocol packets or <del>UDP</del>user datagram protocol – <del>Pinternet protocol</del> packets, and the

TCPtransmission control protocol - Pinternet protocol packets or UDPuser datagram protocol -

Pinternet protocol packets are transmitted and received via the second LAN local area network

interface.

Claim 5 (Previously presented)

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4, further comprising a router connected to the second <u>LAN</u><u>local area network</u> interface for

connecting the second <u>LAN</u>local area network interface to either the outside of the <u>LAN</u>local area

network or the LANlocal area network hubs.

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Claim 6. (Previously presented) A method of communication over a LANlocal area network comprising a plurality of LANlocal area network hubs coupled to computing equipment for performing data communication, a plurality of concentrators coupled to voice telephones, and a LANlocal area network switching unit, having a plurality of ports and for switching and connecting between the plurality of the LANlocal area network hubs, and the plurality of the concentrators for voice telephones, the method comprising the step of:

performing call control for the voice telephones coupled to each of the concentrators with the computing equipment in each of the LANlocal area network hubs wherein the case that a response from a PC or work station on the call-in side is not obtained, arrival of a call request is notified, and the response is detected by use of control channel signals of a voice telephone interface on the call-in side.

Claims 7-9 (canceled)

Claim 10 (Currently amended) A telecommunication apparatus for voice telephones installed in a <u>LANlocal area network</u> including a plurality of <u>LANlocal area network</u> equipment, the telecommunication apparatus comprising:

at least one <u>LANlocal area network</u> interface coupled to the <u>LANlocal area network</u> equipment;

a CPUcentral processing unit;

at-least one voice telephone;

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a set of voice telephone interfaces adapted to receive and transmit digital and analog voice

data or call control data between the CPUcentral processing unit and the at least one voice

telephone, wherein the CPUcentral processing unit is adapted to convert the digital and analog voice

data or call control data into Pinternet protocol packets or MAC media access control frames and

transmit the Printernet protocol packets or MAC media access control frames to the at least one

LANlocal area network interface wherein the set of voice telephone interfaces are adapted to

perform a BORSCHT function.

Claim 11 (Previously presented) The telecommunications apparatus of claim 10, further

comprising a router connected to at least one LANlocal area network interface and to a LANlocal

area network hub or outside of the LANlocal area network.

Claim 12 (Previously presented) The telecommunications apparatus of claim 10,

wherein the LAN local area network equipment includes one of a LAN local area network hub and a

LANlocal area network switching unit.

Claim 13 (Previously presented) The telecommunications apparatus of claim 10, further

comprising a LANC circuit coupled to the CPU central processing unit and voice telephone interface

for assembling and disassembling a MAC media access control frame.

Claim 14 (Previously presented) The telecommunications apparatus of claim 10, wherein the call control data are converted into a call control protocol according to TCPtransmission control protocol/Pinternet protocol.

Claim 15 (Currently amended) A telecommunication apparatus for voice telephones installed in a <u>LANlocal area network</u> including a plurality of <u>LANlocal area network</u> equipment, the telecommunication apparatus comprising:

at least one <u>LANlocal area network</u> interface coupled to the <u>LANlocal area network</u> equipment;

a CPUcentral processing unit;

at least one voice telephone;

a set of voice telephone interfaces adapted to receive and transmit digital and analog voice data or call control data between the CPUcentral processing unit and the at least one voice telephone, wherein the CPUcentral processing unit is adapted to convert the digital and analog voice data or call control data into TCPtransmission control protocol/Pinternet protocol packets or UDPuser datagram protocol/Pinternet protocol packets and transmit the packets to the at least one LANlocal area network interface.

Claim 16 (Previously presented) The telecommunications apparatus of claim 15, further comprising a router connected to the at least one <u>LANlocal area network</u> interface and to a <u>LANlocal area network</u> hub.

Claim 17 (Previously presented) The telecommunications apparatus of claim 15, further

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comprising a router connected to the at least one LAN local area network interface and to an external

network.

Claim 18 (Previously presented) A method of communication over a LANlocal area

network, comprising:

receiving and transmitting digital and analog voice data or call control data between a voice

telephone interface and a voice telephone;

receiving and transmitting the digital and analog voice data or call control data between the

voice telephone interface and a CPUcentral processing unit;

converting the digital and analog voice data or call control data into Pinternet protocol

packets or MAC media access control frames with the CPU central processing unit; and

transmitting the Pinternet protocol packets or MACmedia access control frames from the

CPUcentral processing unit to a LANlocal area network interface.

Claim 19 (Previously presented) The method of claim 18, further comprising

transmitting the Pinternet protocol packets or MACmedia access control frames from the LANlocal

area network interface to a router.

Claim 20 (Previously presented) The method of claim 19, further comprising

transmitting the Pinternet protocol packets or MAC media access control frames from the router to

an external network.

Claim 21 (Previously presented) The method of claim 18, further comprising transmitting the Pinternet protocol packets or MACmedia access control frames to a LANlocal area network hub.

Claim 22 (Previously presented) The method of claim 18, further comprising converting the digital and analog voice data into TCPtransmission control protocol/Pinternet protocol packets or UDPuser datagram protocol/Pinternet protocol packets with the CPUcentral processing unit.

Claim 23 (new) A concentrator for voice telephones according to Claim 1, further comprising: a database coupled to the local area network switching unit or the local area network hubs and storing media access control addresses for clients of the local area network and providing the addresses in response to inquires.

Claim 24 (new) The method of claim 18, wherein time slots for the digital and analog voice data or call control data are converted into the internet protocol packets or media access control frames.